

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 SIXTH AVENUE
SEATTLE, WASHINGTON 98101
(206) 442-7176

yellow

NOTICE OF ISSUANCE OF PSD PERMIT TO
Atlantic Richfield Company--SOHIO Petroleum Company

Notice is hereby given that on June 13, 1980 the Environmental Protection Agency issued a Prevention of Significant Deterioration (PSD) permit to Atlantic Richfield Company-SOHIO Petroleum Company for approval to install additional gas fired turbines and heaters in the Prudhoe Bay oil field at Prudhoe Bay, Alaska. This permit has been issued under EPA's Prevention of Significant Air Quality Deterioration (40 CFR Part 52.21) regulations subject to certain conditions, including:

1. Emissions of nitrogen oxides (NO_x), particulate matter (PM), and carbon monoxide (CO) shall not exceed the following:

Emissions Limitations

Location	Equipment	NO_x	Pollutant (tons/yr)	
			CO	Part
G.C. #1	*Turbines	2553	476	63
	*Heaters	184	32	19
G.C. #2	*Turbines	4615	861	115
	*Heaters	219	36	21
G.C. #3	*Turbines	2553	476	63
	*Heaters	184	32	19
Well Pads	*Heaters	133	13	8
Central Compressor Plant	*Turbines	646	120	16
	*Heaters	22	2	1
F.S. #1	*Turbines	3049	569	70
F.S. #2	*Turbines	3979	742	91
	*Heaters	35	8	5
F.S. #3	*Turbines	3979	742	91
Total		22151	4109	582

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* Gas Turbines

NO _x	150 (14.4/Y)ppm**
CO	109.6 lb CO/10 ⁶ scf (fuel)
PM	14 lb PM/10 ⁶ scf (fuel)
	10 % Opacity Limit

* Process Heaters

43 x 10 ⁶ BTU/hr	NO _x	0.08 lb NO _x /10 ⁶ BTU
43 x 10 ⁶ BTU/hr	NO _x	0.19 lb NO _x /10 ⁶ BTU
	CO	0.018 lb CO/10 ⁶ BTU
	PM	0.011 lb PM/10 ⁶ BTU
		5% Opacity Limit

** NO_x emissions factor for gas-fired turbines is modified by an efficiency factor (Y) which cannot exceed 14.4 kilojoules/watt hour (manufacturer's rated heat rate at rated peak load).
Based on 15% oxygen on a dry basis.

2. With the exception of NO_x, PM, and CO, increases in potential emissions of any pollutant regulated under the Clean Air Act resulting from this modification will be less than 250 tons per year.

Under Section 307(b)(1) of the Clean Air Act, judicial review of the PSD Permit is available only by the filing of a petition for review in the Ninth Circuit Court of Appeals within 60 days of today. Under Section 307(b)(2) of the Clean Air Act, the requirements which are the subject of today's notice may not be challenged later in civil or criminal proceedings brought by EPA to enforce these requirements.

Copies of the permit are available for public inspection upon request at the following location:

EPA, Region 10
1200 Sixth Avenue, Room 11C
Seattle, Washington 98101

20 NOV 1980

Date

15/ Don Dubois
Donald P. Dubois
Regional Administrator

CONCURRENCES					
SYMBOL	NYE	JOHNSTON	GEREN	REED	COATE
SURNAME	KCP	J	J	B	
DATE	11/17/80	11/17	11/18		

EPA Form 1320-1 (12-70)

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